

US-41 RECONSTRUCTION HOUGHTON: 2021-2022



PROJECT OVERVIEW



PROJECT LIMITS





Townsend Drive, College Avenue,
Franklin Square, and east end of
Montezuma Avenue



Design:
October 2018 - October 2020



Construction: 2021 - 2022



Construction cost: \$9 million



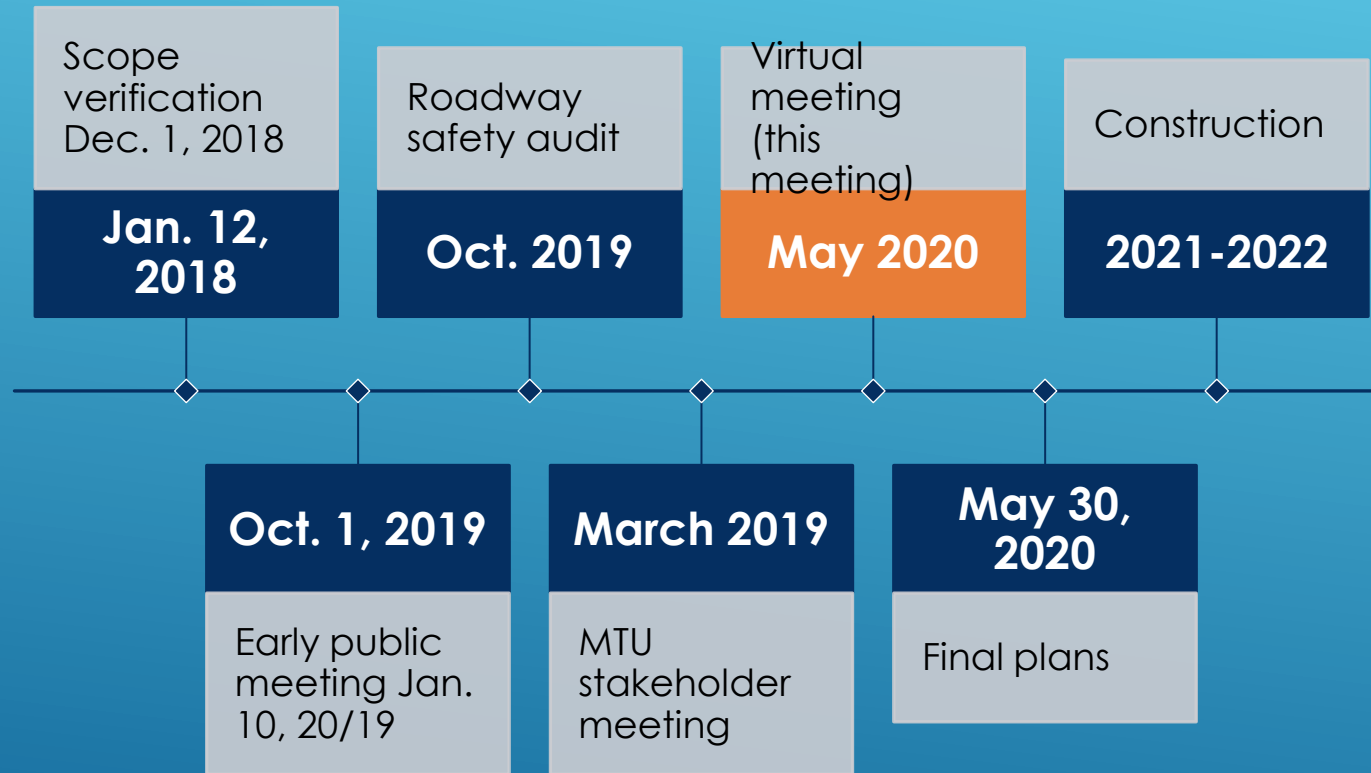
Federal and state road
preservation funds, city and USDA



City work: Sanitary sewer and
water main upgrades

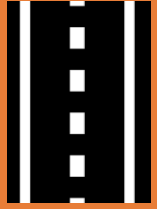
PROJECT DETAILS





PROJECT TIMELINE





Pavement condition

- Townsend Drive constructed in 1969
- Montezuma Avenue previously reconstructed in 1964 and 1976



Right-size the road

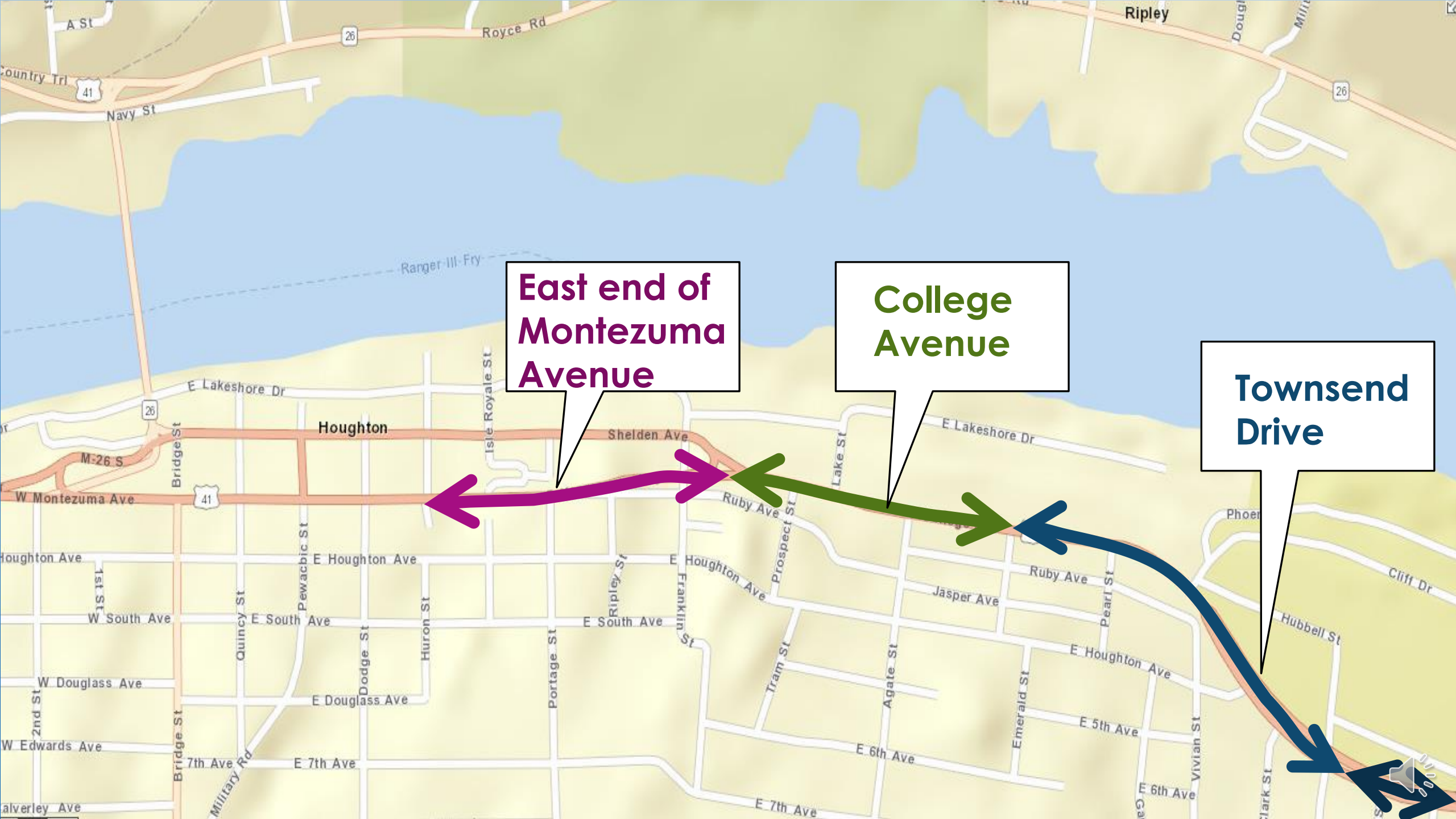
- 20-year (2041) traffic projections
- Average daily traffic ranges from 14,900 to 16,600 vehicles per day
- 2 to 3 percent commercial

PROJECT NEED



LANE RECONFIGURATION





East end of
Montezuma
Avenue

College
Avenue

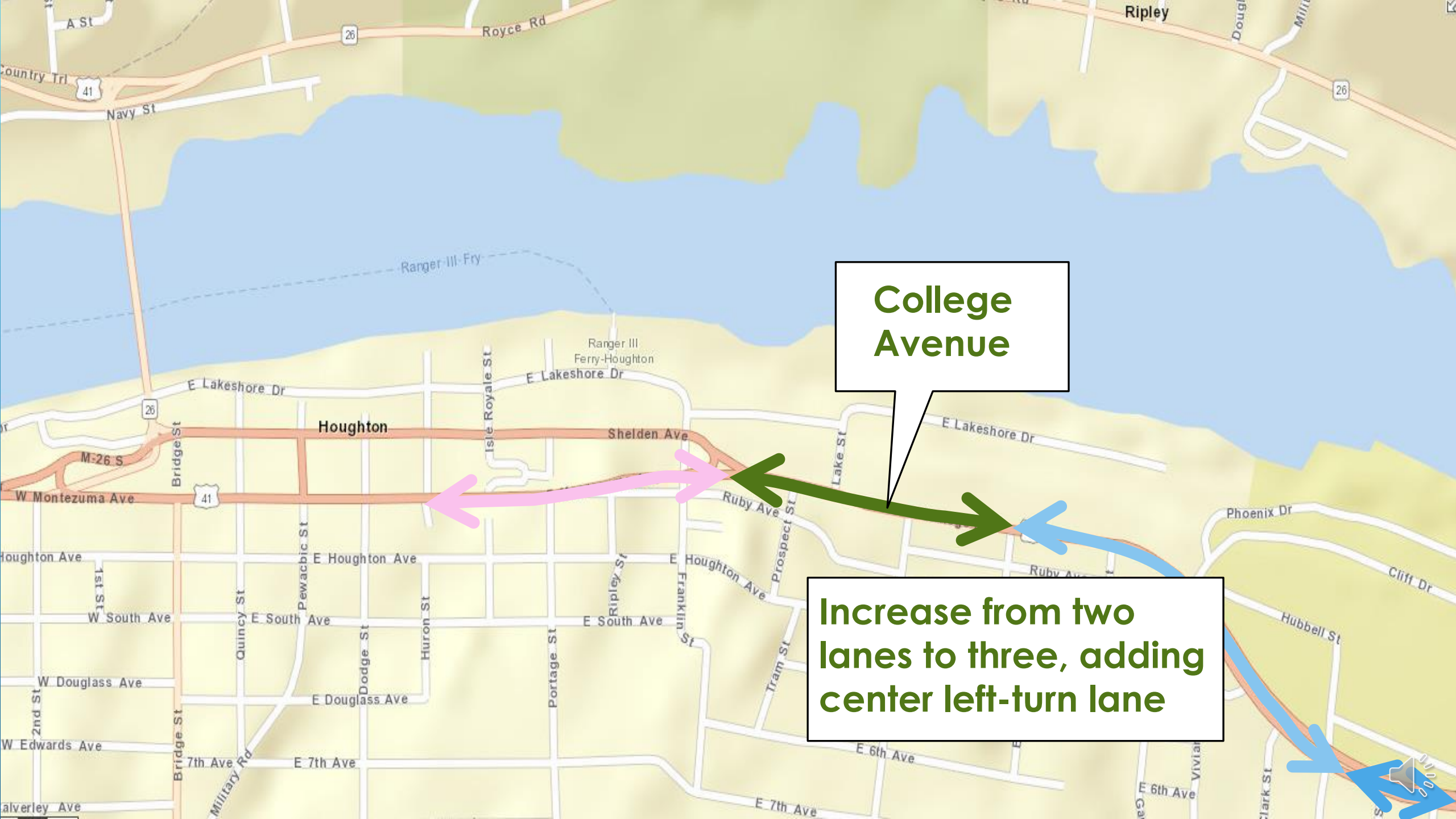
Townsend
Drive

**East end of
Montezuma
Avenue**

**Reduce from
three lanes to
two; remove
“Ruby Ramp”**

East Montezuma Avenue





College Avenue

Increase from two lanes to three, adding center left-turn lane

College Avenue





**Reduce from
four lanes to two,
with appropriate
turn lanes**

**Townsend
Drive**

**Reconstruct
existing lanes
and intersection**

Townsend Drive



Townsend Drive at MacInnes Drive



WHY LANE REDUCTIONS?



Removing unnecessary lanes promotes better traffic flow



Improves pedestrian crossing safety



Build and maintain only what is needed



OTHER FEATURES



- ▶ Connectivity created between E. Montezuma Avenue and College Avenue by elimination of traffic lane and replacement with concrete sidewalk.
- ▶ New crosswalk at west end of College Avenue.

PEDESTRIAN IMPROVEMENTS



- Reduction on College Avenue and Townsend Drive near Cliff Drive allows for wider sidewalk, promoting continuity from College Avenue directly to MTU campus.

PEDESTRIAN IMPROVEMENTS



- ▶ Marked pedestrian crosswalks will be placed at high-volume entrances to MTU campus with median refuges created for safety.

PEDESTRIAN IMPROVEMENTS



HISTORIC PROPERTIES AND CONSIDERATIONS

Design challenges: minimizing or avoiding impacts on the many historic features along the corridor.

1007 College Ave.



Historic rock wall.



Light standards will be salvaged.



HISTORIC PROPERTIES AND CONSIDERATIONS

- ▶ Thorough review of right-of-way (ROW) purchases.
- ▶ No adverse impacts on the properties.
- ▶ Several properties with potential historic significance.



MUNICIPAL UTILITY UPGRADES



- ▶ **Coordination:** Ensures an aging system won't fail beneath new pavement.
- ▶ **Sanitary sewer and water main upgrades:** \$2.5 million.
- ▶ **Majority of funding through USDA Rural Development.**
- ▶ **Aging system:** roughly 100 years old in places!
- ▶ **5,395 feet of new water main; 4,435 feet of new sanitary sewer.**



STORM SEWER/DRAINAGE IMPROVEMENTS



- ▶ New storm sewer, catch basins and manholes.
- ▶ 64 new drainage structures to reduce ponding and improve safety.
- ▶ Upsized system for increased capacity.
- ▶ Improved capture of pollutants.



MAINTAINING TRAFFIC



2021 CONSTRUCTION SEASON

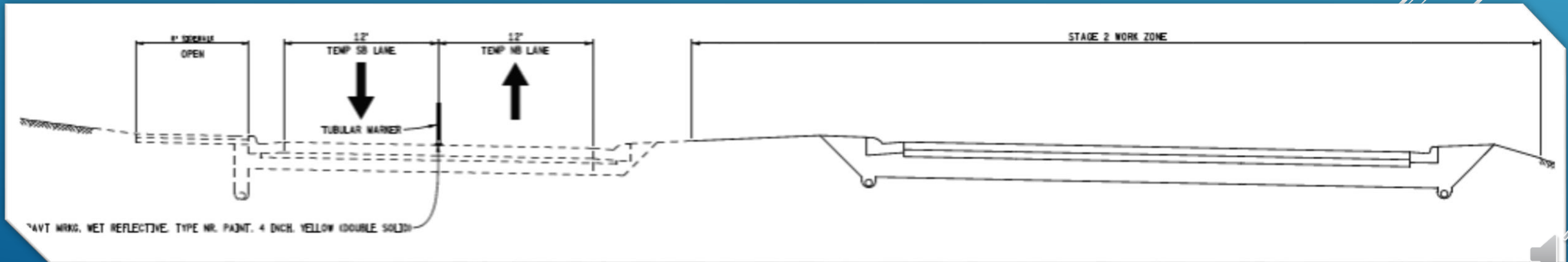
Reconstruction of Townsend Drive

► Stage 1

Temporary paving and prep for Stage 2.

► Stage 2

Both directions of traffic shifted to southbound roadbed. Reconstruct the northbound roadway section.



2021 CONSTRUCTION SEASON

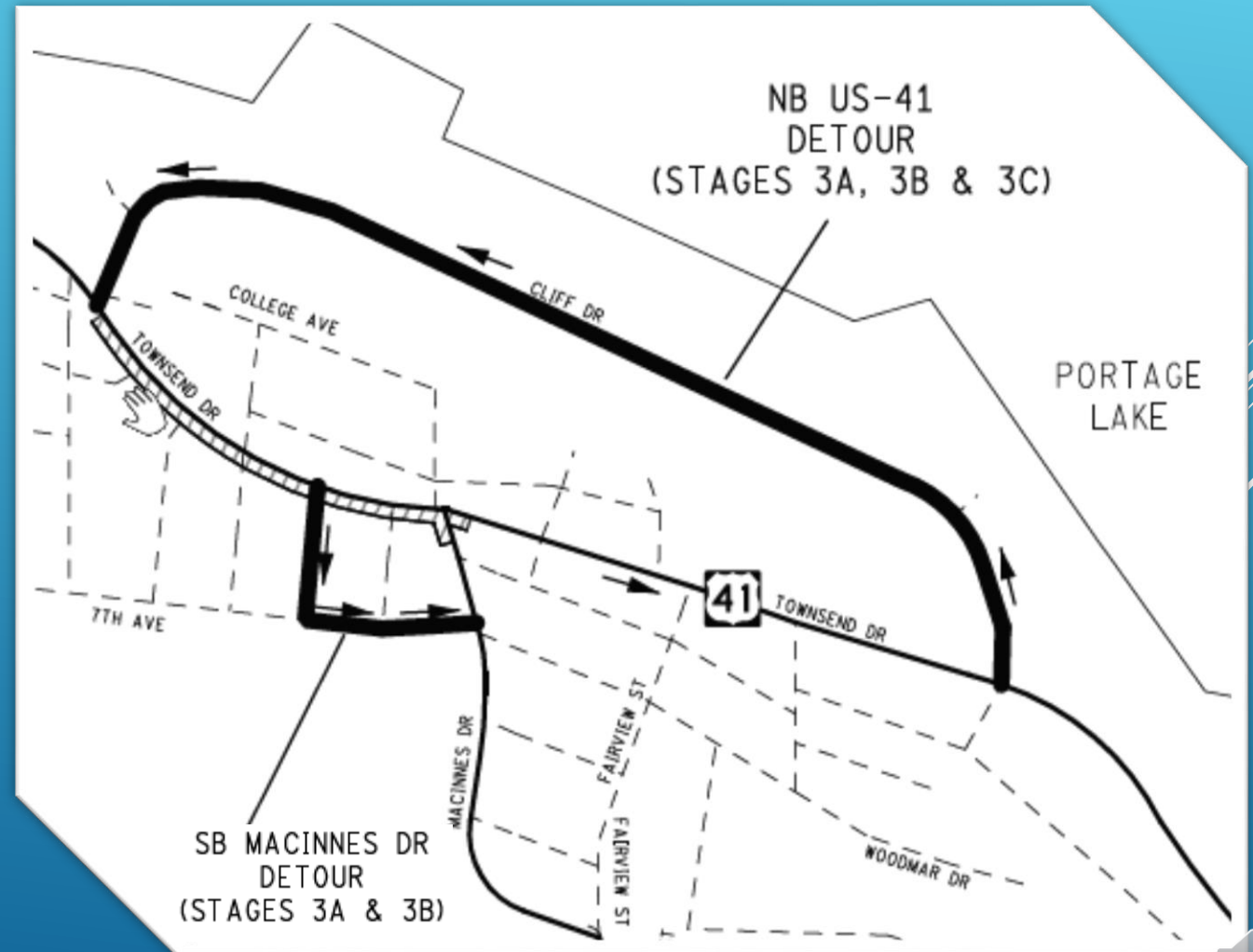
Reconstruction of Townsend Drive

► Stage 3

Northbound traffic detoured onto Cliff Drive.

Reconstruction of the southbound roadway section.

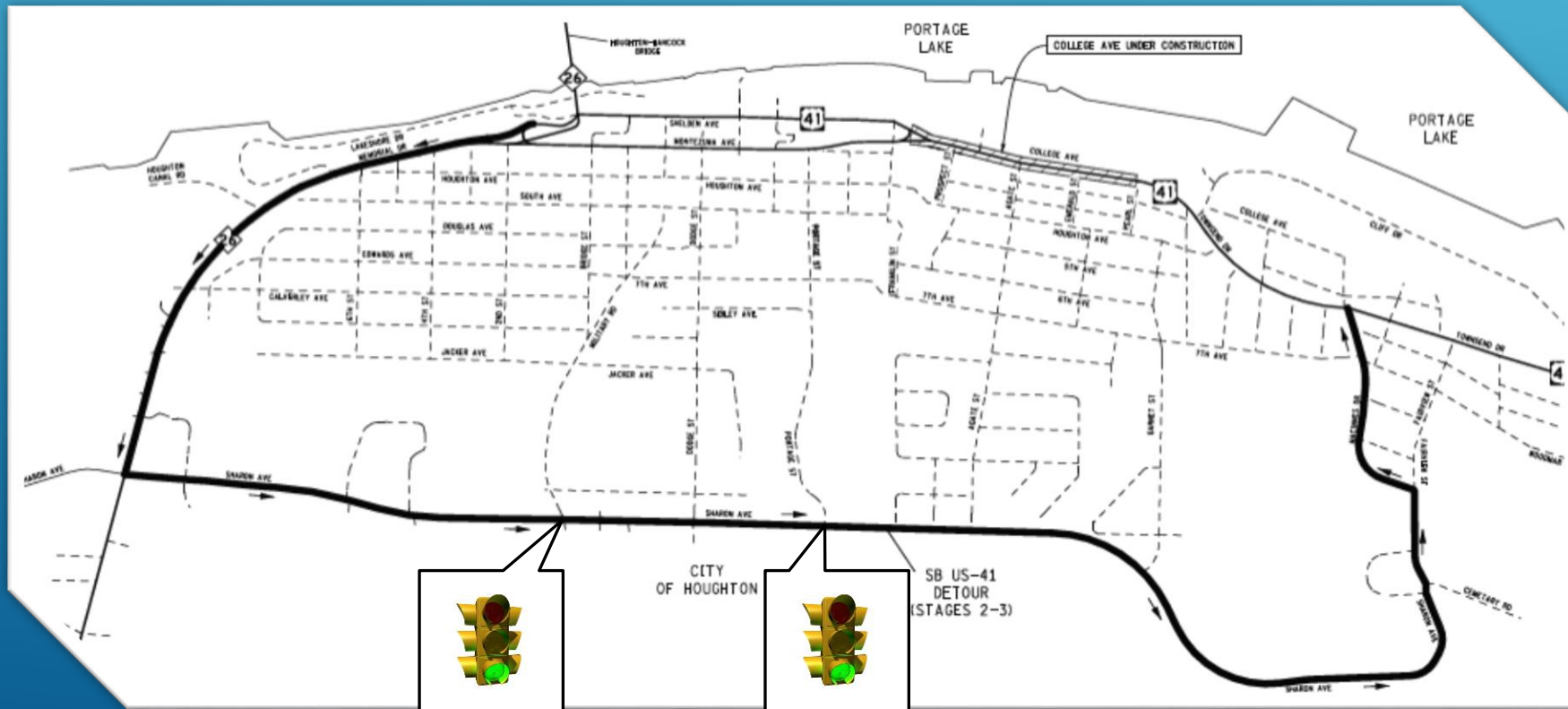
MacInnes Drive constructed in multiple stages.



2022 CONSTRUCTION SEASON

Reconstruction of College Avenue, Montezuma Avenue, and Franklin Square

- ▶ Southbound US-41 detour
- ▶ Local traffic maintained, Montezuma Avenue to Shelden Avenue
- ▶ Temporary traffic signals



CONTACT AND FEEDBACK



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Would you like to provide feedback?

E-mail: MDOT-Houghton2021@Michigan.gov

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